HDTV Set-top Box

User's Manual

CXHD-1000C

▶ The predefined channel list may return to default setting after OTA has been performed.
▶ The default password is 0000. If you have forgotten your password, please contact your local product distributor.

HUMAX
EASY DIGITAL

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Notice

Read this manual carefully and make sure you understand the instructions provided. For your safety, be aware of the following precautions.

Warnings, Cautions and Notes

Throughout the whole manual, pay special attention to the following marks that indicate hazardous situations.

- **Warning**
  Indicates a hazardous situation which, if not avoided, could result in (serious) injury.
- **Caution**
  Indicates a situation which, if not avoided, could damage the equipment or other apparatus.
- **Note**
  Indicates additional information to make the user aware of possible problems and information of any importance to help understand, use and maintain the installation.

To reduce the risk of electric shock, do not remove cover (or back). No user serviceable parts inside. Refer servicing to qualified service personnel.

This symbol indicates **dangerous voltage** inside the product that presents a risk of electric shock or personal injury.

This symbol indicates important instructions accompanying the product.

Safety Warning

This product has been manufactured to comply with international safety standards. Please read the following safety precautions carefully.

Safety Instructions and Precautions

1. **MAINS SUPPLY**

   90-250V AC 50/60Hz
   Operate this product only from the type of power supply indicated on the marking label. If you are not sure of the type of power supplied to your home, consult your local power company. Disconnect the product from the mains before you start any maintenance or installation procedures.

2. **OVERLOADING**

   Do not overload a wall outlet, extension cord or adapter as this may result in electric fire or shock.

3. **LIQUIDS**

   The product should not be exposed to liquid of any kind. In addition, no objects filled with liquid should be placed on the apparatus.

4. **CLEANING**

   Disconnect the product from the wall outlet before cleaning.
   Use a light damp cloth (no solvents) to dust the product.

5. **VENTILATION**

   The slots on top of the product must be left uncovered to allow proper airflow into the unit. Do not stand the product on soft furnishings or carpets. Do not stack electronic equipments on top of the product.

6. **ATTACHMENTS**

   Do not use any unsupported attachments as these may be hazardous or cause damage the product.

7. **CONNECTION TO THE CABLE TV SIGNAL**

   Connect all components before plugging any power cords into the wall outlet. Always turn off the product, TV and other components before you connect or disconnect any cables.

8. **CONNECTION TO THE TV**

   Disconnect the product from the mains before connecting or disconnecting the cable from the TV. Failure to do so can damage the TV.

9. **LOCATION**

   Place the product indoors to avoid exposing it to lightening, rain or sun.
   Do not place it near a radiator or heat register.
   Make sure it has more than 10 cm clearance from any appliances susceptible to electromagnetic influences, such as a TV or a VCR.
   Do not block the openings with any object, and do not place the product on a bed, sofa, rug, or other similar surface.
   If you place the product on a rack or a bookcase, ensure that there is adequate ventilation and that you have followed the manufacturer's instructions for mounting.
   Do not place the product on an unstable cart, stand, tripod, bracket, or table where it can fall. A falling product can cause serious injury to a child or adult, and serious damage to the appliance.

Safety Warning

10.LIGHTNING, STORM or NOT IN USE

Unplug the product from the wall outlet and disconnect the antenna during a thunderstorm or when left unattended and unused for long periods of time. This will prevent damage to the unit due to lightning and power-surges.

11.EXTRANEOUS OBJECTS

Do not insert anything through the openings in the unit, where they can touch dangerous voltage points or damage parts.

12.REPLACEMENT of PARTS

When replacement of parts is required, be sure the service technician uses replacement parts specified by the manufacturer or those that have the same characteristics as the original part. Unauthorised substitution may result in additional damage to the unit.

Warning

1. Follow these directions in order to avoid damage of the power cord or plug.
   Do not modify or process the power cord or plug arbitrarily.
   Do not bend or twist the power cord.
   Make sure to disconnect the power cord holding the plug.
   Keep heating appliances as far as possible from the power cord in order to prevent the cover vinyl from melting.
   The mains plug shall remain readily operable.
2. Follow these directions. Failure to follow any of them may cause electrical shock.
   Do not open the main body.
   Do not insert metal or inflammable objects inside the product.
   Do not touch the power plug with wet hands.
   Disconnect the power cord in case of lightning.
3. Do not use the product when it is out of order. If you continue to use the product when defective, serious damage can be caused to it. Make sure to contact your local product distributor if the product is out of order.
4. Please do not insert metal or alien substance into the slots for the modules and Smartcards. It may cause damage to the product and reduce its life span.

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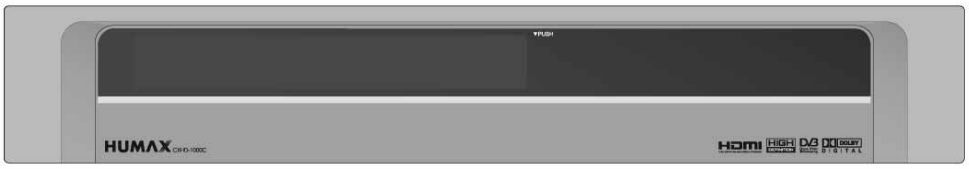
1. Before Using the Product

This chapter provides detailed instructions on the product and its accessories.

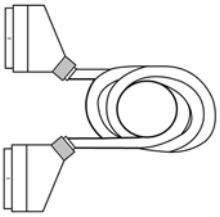
1.1 Package Contents

Please check all package contents before using your product.



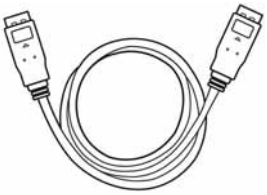
Remote Control

RF cable

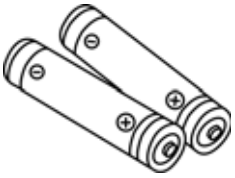


SCART Cable

User's Manual



HDMI Cable



Batteries

Note:

- Defaults may occur if the remote control is left without battery for a long time. Always keep the battery inserted in the remote control.
- Package contents may vary according to area.

1. Before Using the Product

1.2 Front Panel

1. **STANDBY BUTTON**
   Switches between operation and standby modes.
2. **TV/RADIO BUTTON**
   Switches between TV and radio modes.
3. **P-/P+ BUTTON**
   Moves the TV/radio channels up or down.
4. **V-/V+ BUTTON**
   Adjusts the audio volume.
5. **VIDEO FORMAT**
   Changes the resolution of video.
6. **SMARTCARD SLOT**
   A slot for a Smartcard

1.3 Conditional Access

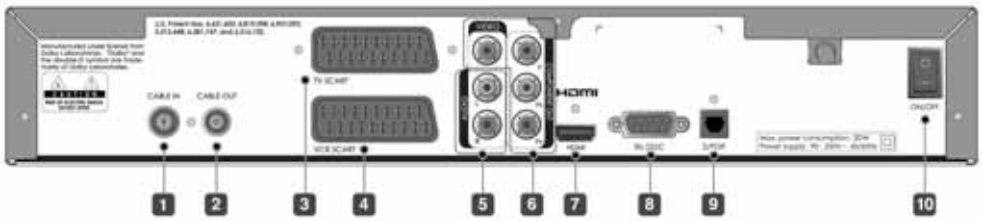
Although some TV and radio channels are free to air, most TV and radio/music channels are available on a subscription basis and can only be enjoyed via a Conditional Access component. The Conditional Access component is a removable Smartcard.

1. Inserting the Smartcard

The Smartcard looks similar to a credit card and is inserted into the slot behind the right-hand front flap of the product. A valid Smartcard entitles you to view and listen to all the channels you choose to subscribe to. The Smartcard slot on the product can be used for Conax Smartcard only.

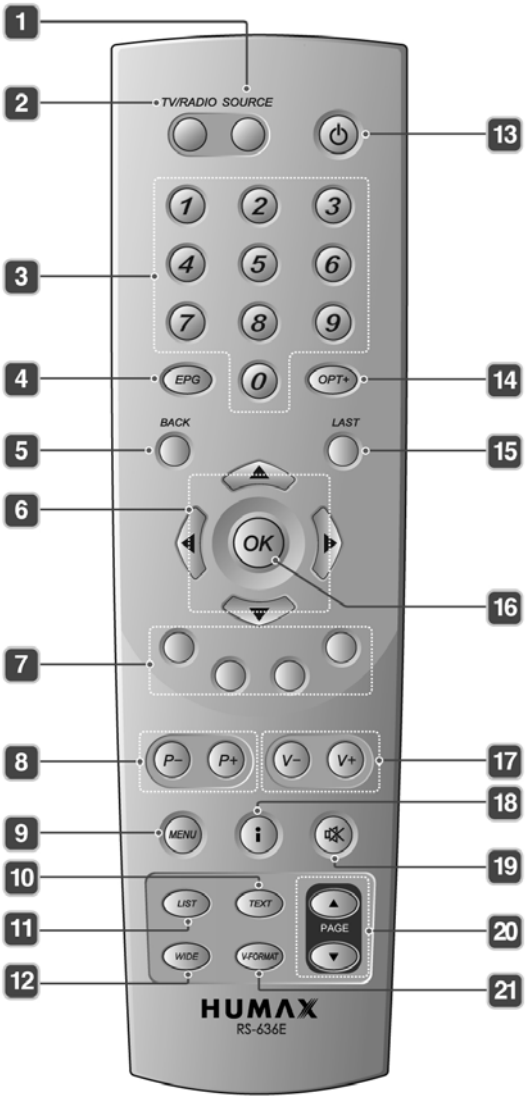
1. Open the right-hand flap on the front panel of the product. Swing it upwards to expose the card slot.
2. Hold the Smartcard horizontally with the electronic chip (small square-shaped, gold in colour) facing upwards.
3. Insert the Smartcard into the slot.

1.4 Rear Panel



1. **CABLE IN**
   Connects a network cable.
2. **CABLE OUT**
   Connects to the RF IN of the TV or VCR using a RF cable.
3. **TV SCART**
   Connects to the TV using a TV SCART cable.
4. **VCR SCART**
   Connects to the VCR or DVD using a VCR SCART cable.
5. **AUDIO L/R**
   Connects to the TV or VCR using a RCA cable.
6. **VIDEO**
   Connects to the TV or VCR using a RCA or component cable.
7. **HDMI**
   Connects to the TV using a HDMI cable.
8. **RS-232C**
   Connector for customer service.
9. **S/PDIF**
   Connects to the audio system using an S/PDIF cable. (digital audio)
10. **ON/OFF**
    Powers on/off.

1.5 Remote Control



1. Before Using the Product

1. **SOURCE**

   Selects the input source between TV and the product.

2. **TV/RADIO**

   Switches between TV and radio modes.

3. **NUMERIC(0-9) BUTTONS**

   Enters a TV/radio channel number.

4. **EPG**

   Displays the EPG.

5. **BACK**

   Closes and returns to the previous menu and screen.

6. **ARROW BUTTONS**

   Changes the channel or moves the cursor up, down, left or right.

7. **COLOUR BUTTONS (R/G/Y/B)**

   Select the colour keys for interactive applications.

8. **P-/P+**

   Changes the channel.

9. **MENU**

   Displays the main menu.

10. **TEXT**

    Switches between the teletext and TV modes.

11. **LIST**

    Displays the channel list.

12. **WIDE**

    Sets the display format.

13. **STANDBY**

    Switches between operation and standby modes.

14. **OPT+ (OPTION)**

    Displays the audio, teletext and subtitle language services.

15. **LAST**

    Returns to the previous channel.

16. **OK**

    Selects a menu or confirms the selected operation. Also displays the channel list while watching a programme.

17. **V-/V+**

    Adjusts the audio volume.

18. **i (INFORMATION)**

    Displays the channel and programme information.

19. **MUTE**

    Mutes or unmutes the audio temporarily.

20. **PAGE ▲/▼**

    Changes the page.

21. **V-FORMAT**

    Changes the resolution of video.

2. Setup

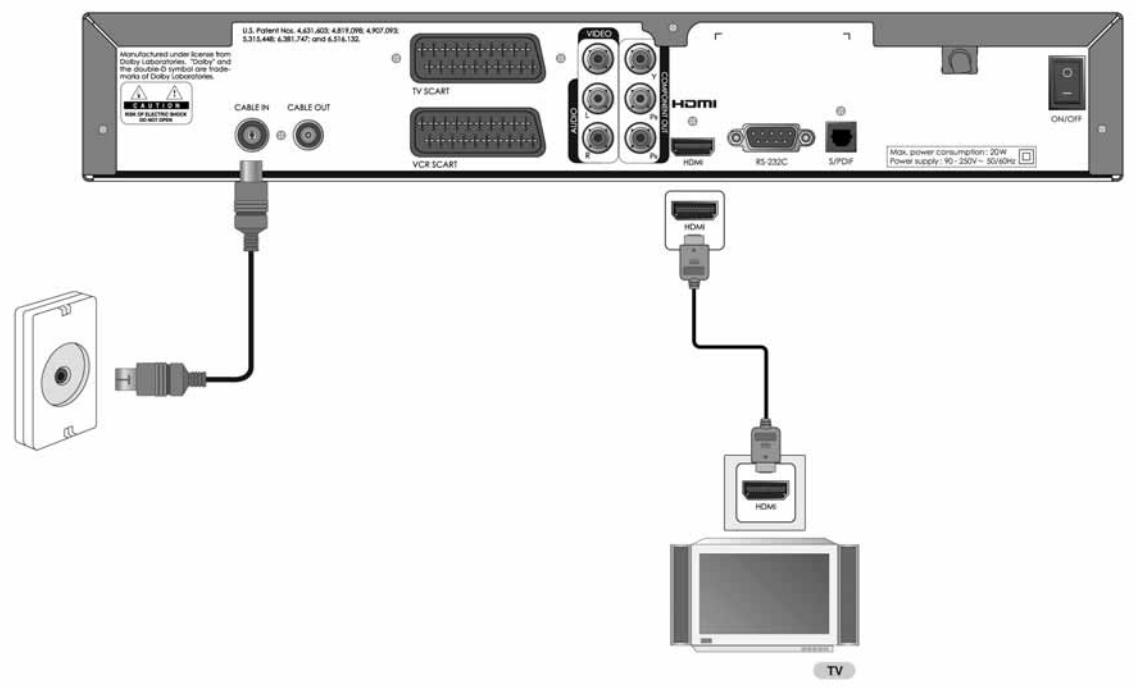
This chapter describes how to connect your product to the TV with the particular equipments for gaining optimum signal quality. The product provides various interfaces to connect to the TV, VCR or other devices. Select the most appropriate procedure depending on the equipment you have.

Note: If you encounter any problems setting up your product, please contact your local product distributor.

2.1 Using HDMI Cable

The HDMI connection is recommended for Digital TV. In case the TV has a HDMI input connector, a special all-digital interface that provides the highest picture quality, connect the product and the TV using a HDMI cable as follows.

1. Connect your CATV line to the CABLE IN.
2. Connect the product and TV using a HDMI cable.

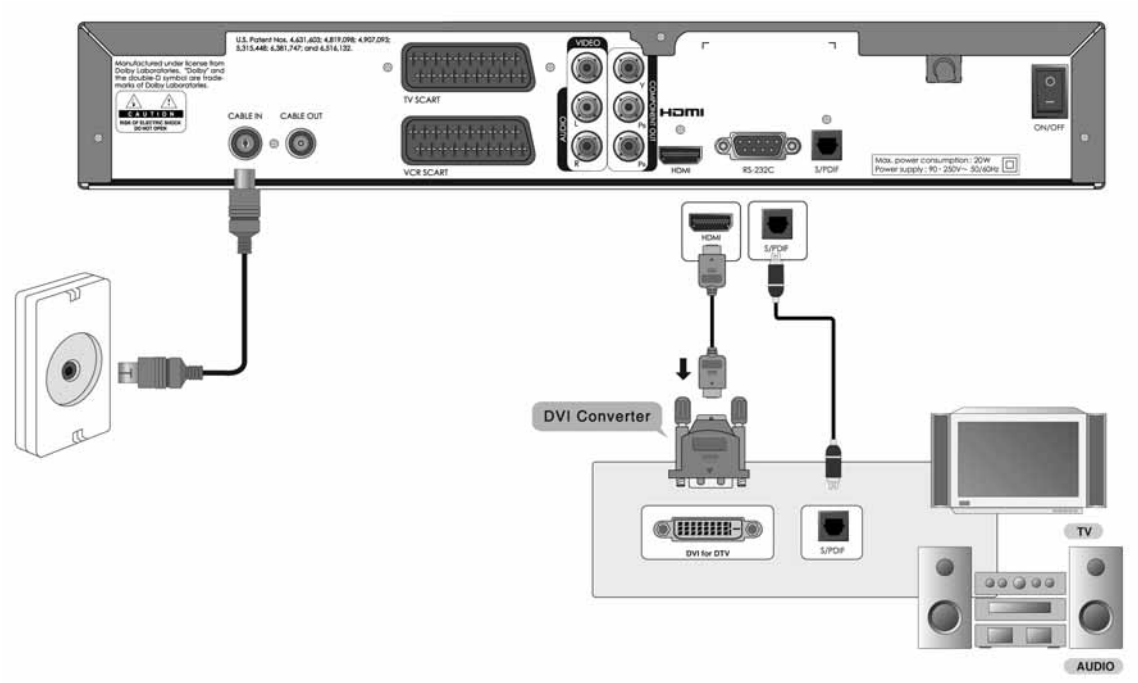


2.2 Using DVI Converter

The DVI connection using a HDMI to DVI converter is recommended for Digital TV. In case the TV has a DVI input connector, connect the product to the TV with a HDMI cable using a HDMI to DVI converter as follows.

1. When equipped with an A/V receiver

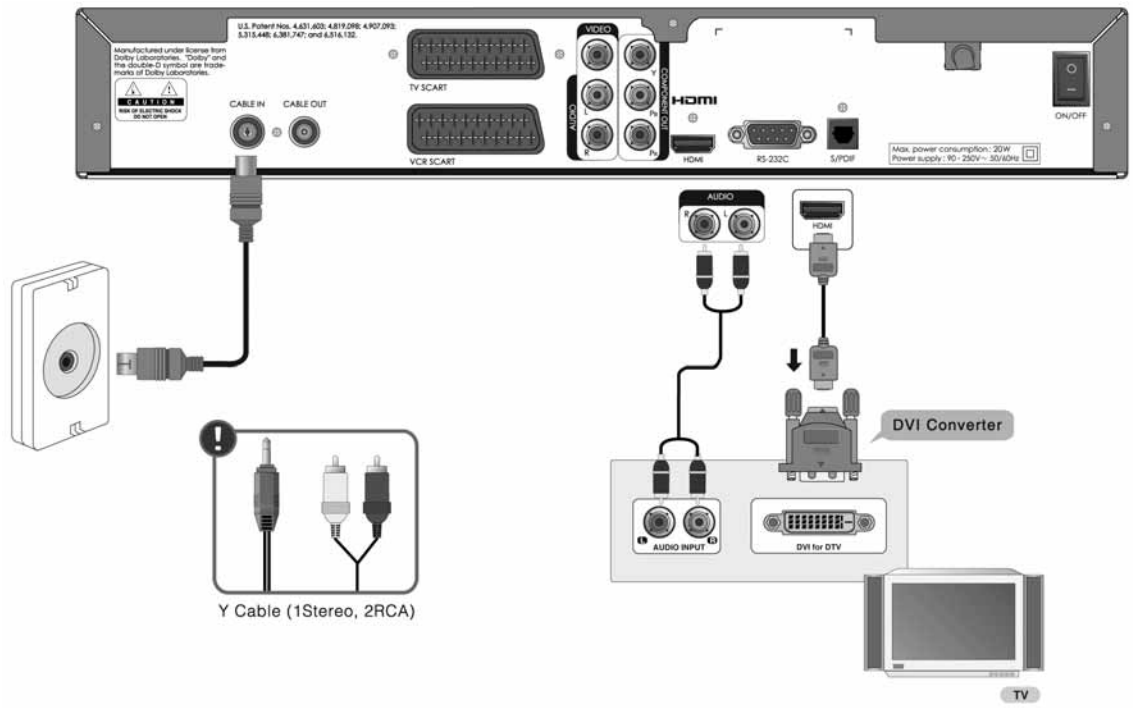
1. Connect your CATV line to the CABLE IN.
2. Connect one end of the HDMI cable to the HDMI input on the product and the other end to the HDMI to DVI converter.
3. Connect the DVI converter to the TV.
4. Connect the product and the Dolby Digital decoder using an S/PDIF cable.



2. When there is no A/V receiver available

In case you are not equipped with an A/V receiver, connect the product to the TV using an audio cable as follows.

1. Connect your CATV line to the CABLE IN.
2. Connect the product and the TV using a RCA cable.
3. Connect one end of the HDMI cable to the HDMI input on the product and the other end to the HDMI to DVI converter.
4. Connect the DVI converter to the TV.



Note: You can also connect the product to the TV using the ***3.5 Stereo Jack Cable to 2 RCA Y Cable***.

Caution: DO NOT CONNECT TO HEAD PHONE CONNECTOR ON TV!

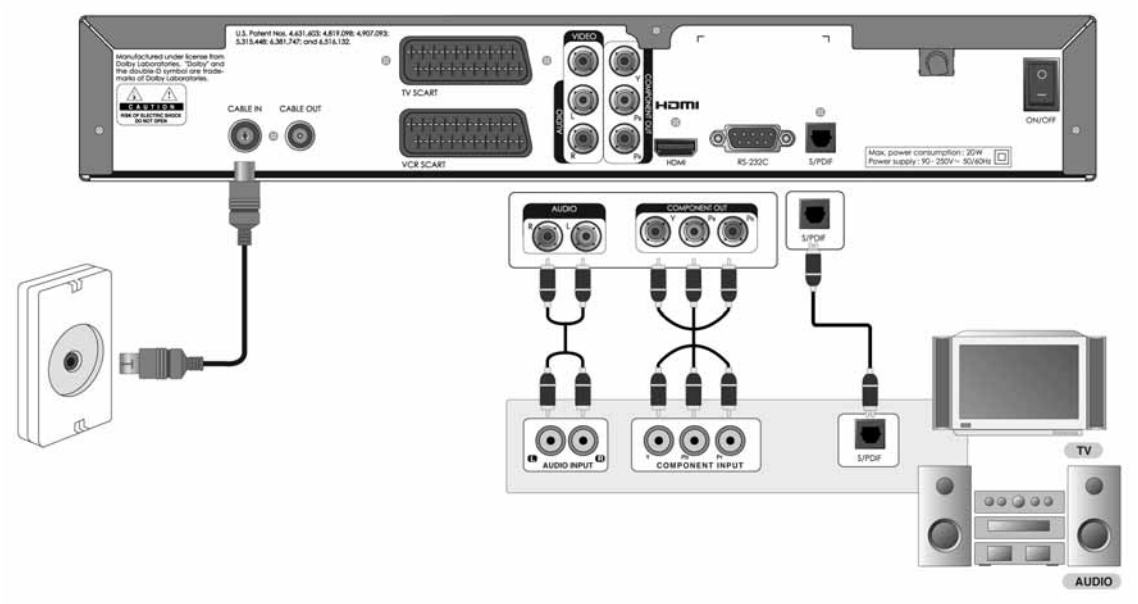
2.3 Using Component Cable

The component connection is recommended for Digital TV. Connect the product to the TV with a component cable as follows.

1. Connect your CATV line to the CABLE IN.
2. Connect the product and the TV using a component cable.
3. You can either:

a. Connect the product and the TV using a RCA cable (Audio L/R).

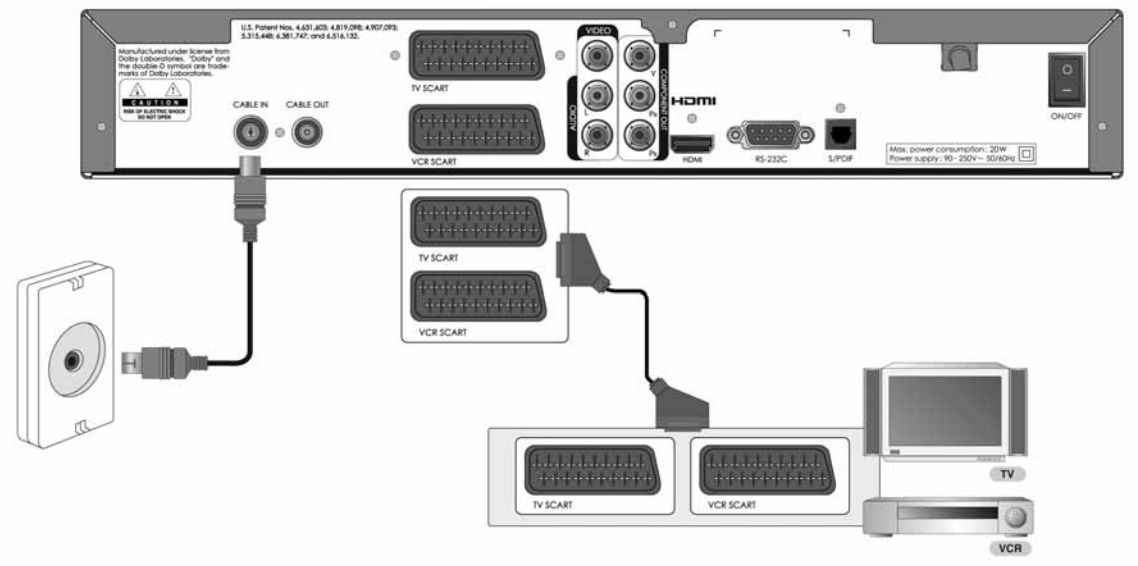
b. Connect the product and the Dolby Digital decoder using an S/PDIF cable.



2.4 Using SCART Cable

A SCART cable connection is recommended for analogue TV or VCR. Connect the product and the TV using a SCART cable as follows.

1. Connect your CATV line to the CABLE IN.
2. Connect the product and the TV using a SCART cable.
3. Connect the product and the VCR using a SCART cable.

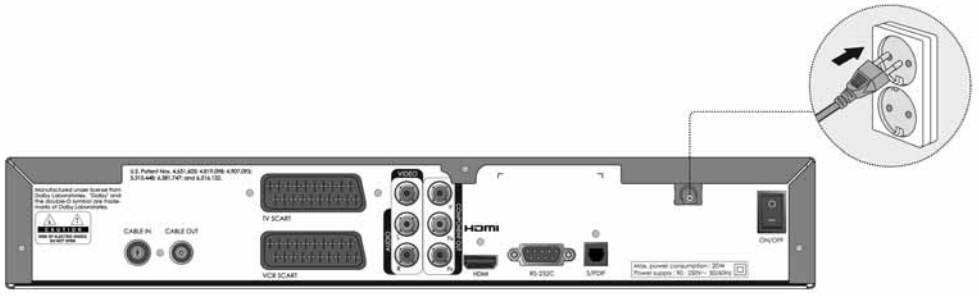


Note: Connecting your TV directly to the Audio/Video output of the product will assure a more vivid picture and enhance your viewing enjoyment.

2. Setup

2.5 Powering On

1. Connect the power cord of the product to a wall outlet.
2. Turn on the power switch located at the left side on the back of the product.



3. Power on by pressing the **STANDBY** button of the remote control or the **STANDBY** button at the front of the product.

3. Installation Wizard

When powering on your product for the first time after purchase, the installation wizard will operate automatically. This chapter includes the first time setup of the language, channel search, time setting and software update which will show you how to start the initial installation.

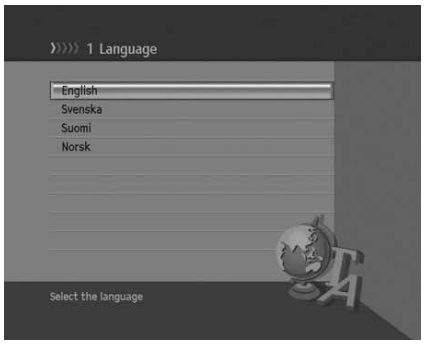
Note:

- The default password is **0000**.
- If you have forgotten your password, please contact your local product distributor.

3.1 Language

Language allows you to select the main language.

Select the appropriate language from the list using the ▲/▼ button and press the **OK** button to save the selected language as a default language.

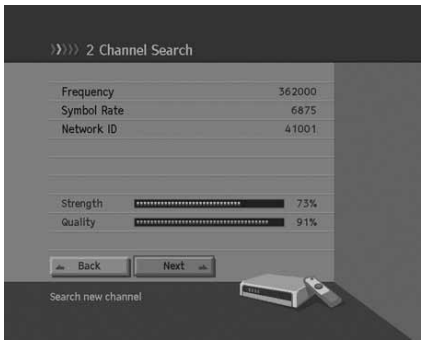


Note: The display language may differ according to country.

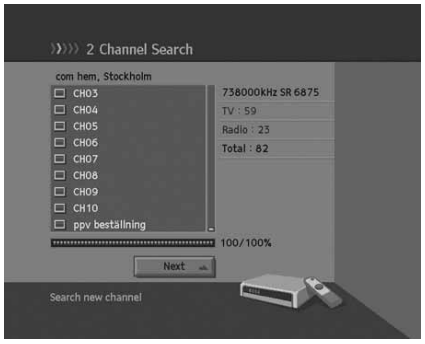
3.2 Channel Search

Channel Search enables you to enter the values such as ***Frequency, Symbol Rate*** and ***Network ID*** to activate channel search.

1. Select ***Frequency*** using the ▲/▼ button. Enter the frequency using the **NUMERIC(0-9)** buttons.
2. Select ***Symbol Rate*** using the ▲/▼ button. Select the symbol rate using the **OK** or ◀/▶ button. Select ***User Define*** to enter the value directly.
3. Select ***Network ID*** using the ▲/▼ button. Enter the network ID using the **NUMERIC(0-9)** buttons.
4. Select ***Next*** and press the **OK** button to search channels.



5. Channel search will activate.
6. To save search results, select ***Next*** and press the **OK** button.



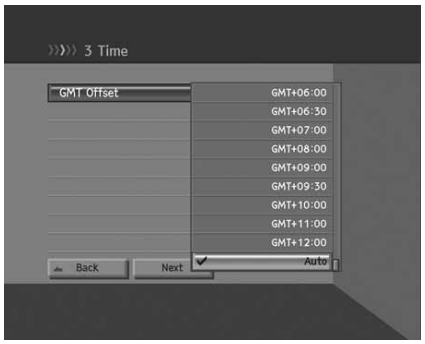
3.3 Time

Time enables you to set the current time.

Select ***GMT Offset*** and press the **OK** or ◀/▶ button.

Note:

- The current time is set automatically whenever GMT offset changes.
- GMT can be changed in 30 minutes/1 hour units.



3.4 New Software

New Software displays the software version and lets you choose to update the new software.

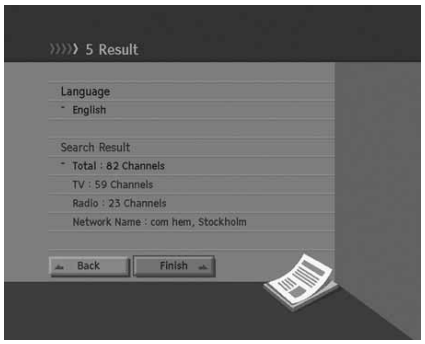
When new software is detected, you can choose to download the software immediately or save for later. In case there is no software currently available, select ***Next*** and press the **OK** button to proceed to the next step.

Note:

- When there is no new software to update, a pop-up will appear.
- For more information about software update, refer to ***Chapter 11. Software Update***.

3.5 Result

After all setting is complete, you can view the result screen. Select ***Finish*** and press the **OK** button to complete the installation wizard.



4. Basic Operation

This chapter describes the basic functions of the product such as switching channel, volume control, lip-sync, option list and programme information. You can check or change the settings.

4.1 Switching Channel

Switching Channel allows you to switch the current channel using one of the following methods.

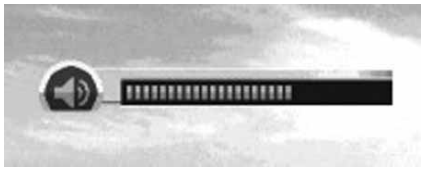
1. Press the **P-/P+** (/) button.
2. Enter the channel number using the **NUMERIC(0-9)** buttons to move to the channel directly.
3. Press the **TV/RADIO** ( ) button to switch between TV channels and radio channels.

Note: You can switch channels using the channel list or EPG.
To return to the previous channel, press the **LAST** ( ) button.

4.2 Volume Control

Volume Control allows you to adjust the audio volume.

1. Press the **V-/V+**(/) button to adjust the audio volume.
2. Press the **MUTE** ( ) button to stop the audio temporarily.

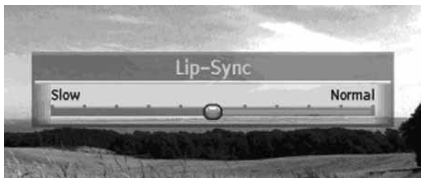


Note: The mute function remains set while you switch channels.

4.3 Lip-Sync

Lip-Sync allows you to adjust the sound difference of video and audio.

1. Press the **MUTE** ( ) button for 3 seconds.
2. Adjust the Lip-Sync and save the setting.



4.4 Resolution

Resolution allows you to set the resolution of the screen.

1. Press the **V-FORMAT** (V-FORMAT) button.
2. The current resolution will be displayed.
3. Each time you press the **V-FORMAT** (V-FORMAT) button, the resolution changes in the following sequence: 576p -> 720p -> 1080i.

4.5 Option List

Option List allows you to set options such as audio, teletext and subtitle language.

1. Audio

You can select the language you prefer in ***Audio*** if the current programme is available in multiple audio languages.

1. Press the **OPT+** (OPT+) button.
2. Select ***Audio*** using the ▲/▼ button and press the ▶ button.
3. Select the audio language you prefer using the ▲/▼ button and press the **OK** (OK) button.
4. Select audio direction (left, right, stereo) using the ▶ button.

Note: If the programme is broadcast in Dolby Digital, you cannot set the audio direction.

4. Basic Operation

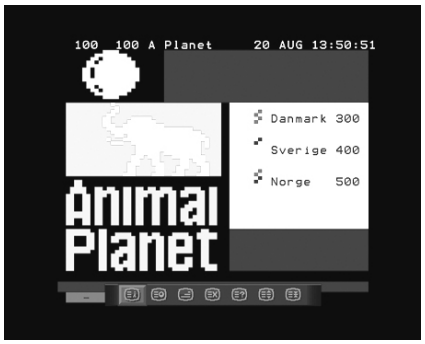
2. Teletext

When the channel supports teletext, the teletext icon is displayed on the i-plate.

1. Press the **OPT+** (OPT+) button.
2. Select ***Teletext*** using the ▲/▼ button and press the **OK** (OK) button.
3. To display teletext menu, press the **MENU** (MENU) button in teletext mode.
4. Select the teletext function you want using the ◀/▶ button and press the **OK** (OK) button.
5. To view the teletext page, use the ▲/▼ or **PAGE** ▲/▼ (PAGE) button.
6. To view the sub-page, use the ◀/▶ button.

Teletext Functions

	Index	Returns to index page. If there is no index page, jumps to page 100.
	Sub-page	Searches the sub-page using the sub-code written by users.
	Mix	Adjusts transparency of teletext screen.
	Cancel	Hides the teletext except page number.
	Reveal	Displays the concealed information.
	Double Size	Displays the text size as double size.
	Page Hold	Holds the current page not updating it.



Note: You can also use the **TEXT** (TEXT) button on your remote control to view teletext.

3. Subtitle

You can select the language for the subtitle if the programme provides subtitle information.

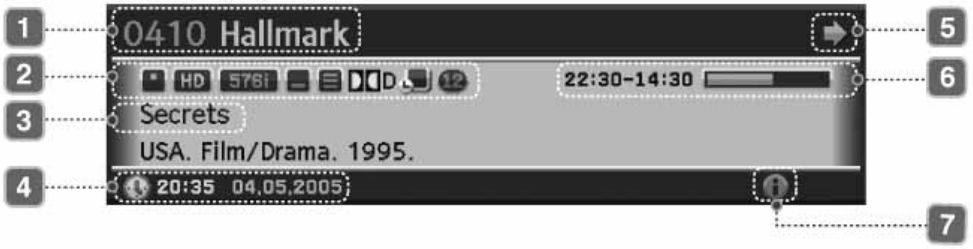
1. Press the **OPT+** (OPT+) button.
2. Select ***Subtitle*** using the ▲/▼ button and press the ▶ button.
3. Select the required subtitle language using the ▲/▼ button and press the **OK** (OK) button. The subtitle will be displayed in the selected language at the bottom of the screen.
4. Select ***Off*** from the subtitle language list to hide subtitle from the screen.

4.6 Programme Information (i-plate)

Programme information is always displayed for a certain period of time each time you switch channels. You can view the programme information by pressing the **i** (ⓘ) button while watching a programme. Press the **BACK** ( ) button to hide the i-plate.

1. General Information

The general information is displayed on the screen as the following.



1. Channel number and name
2. Icons

	Displayed only when the channel is a scrambled channel.
HD	Displayed only when the channel provides HD programmes.
576i	Displays the resolution of the current programme.
	Displayed only when subtitle information is available.
	Displayed only when there is any teletext information.
DD	Displayed only when the programme is broadcast in Dolby Digital.
	Displayed only if this programme is reserved.
12	Represents parental level. Indicates the minimum level of age for viewing the programme.

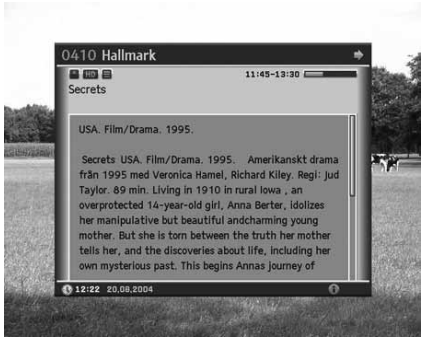
3. Programme name.
4. Current time & date
5. Next programme information: Displayed if next programme information is provided. Press the ▶ button to display the next programme information.
6. Programme broadcasting time and progress bar: Displays programme playing time and progress bar.
7. Detailed programme information: Displayed if detailed programme information is provided.

Note: If there is no programme information available, programme information is not displayed.

4. Basic Operation

2. Detailed Programme Information

You can see the detailed information about the current programme. Press the **i** (ⓘ) button when the i-plate is displayed to view detailed information.


0410 Hallmark
11:45-13:30
Secrets
USA. Film/Drama. 1995.
Secrets USA. Film/Drama. 1995. Amerikanskt drama från 1995 med Veronica Hamel, Richard Kiley. Regi: Jud Taylor. 89 min. Living in 1910 in rural Iowa , an overprotected 14-year-old girl, Anna Berter, idolizes her manipulative but beautiful andcharming young mother. But she is torn between the truth her mother tells her, and the discoveries about life, including her own mysterious past. This begins Annas journey of
12:22 20.08.2004

Note:

- Press the **i** (ⓘ) button again to hide the information box.
- If the detailed programme information is more than one page, use the **PAGE** ▲/▼ (PAGE/PAGE) button to move to the previous/next page.

5. Channel List

This chapter will help you display the channel list using the **LIST** (LIST) button and switch to another channel in the channel list.

Four types of channel lists are provided for quick and easy channel search.

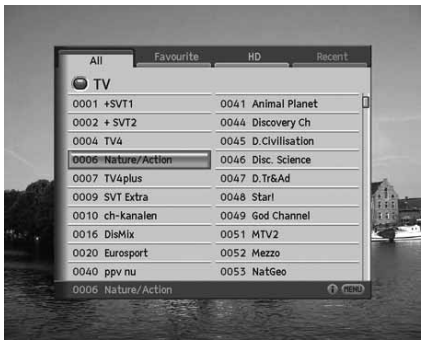
All	The list of all TV and radio channels
Favourite	The list of the favourite channels in five groups
HD	The list of HD channels.
Recent	The list of recently viewed channels

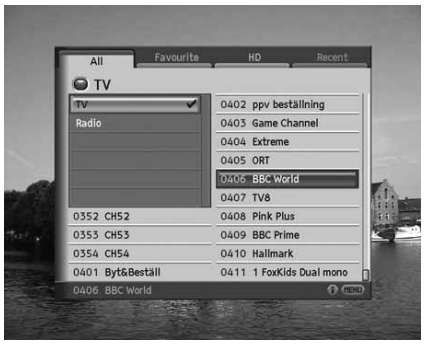
Note: Press the **BACK** ( ) button to exit the ***Channel List***.

5.1 All Channels List

All Channels List allows you to view the list of all channels and include the channels in ***Favourite***. You can also use lock/unlock functions or configure the menu.

1. Press the **LIST** (LIST) or **OK** (OK) button while watching a programme.
2. Press the **RED** button on the remote control while the channel list is displayed.
3. Select the channel you wish to view using the ▲/▼ button and press the **OK** (OK) button.
4. You can also enter the channel number using the **NUMERIC(0-9)** buttons and press the **OK** (OK) button to change to a certain channel.
5. Press the **LIST** (LIST) button again and select from ***TV*** and ***Radio***, and press the **OK** (OK) button.
6. To switch to ***TV*** or ***Radio***, press the **RED** button again.



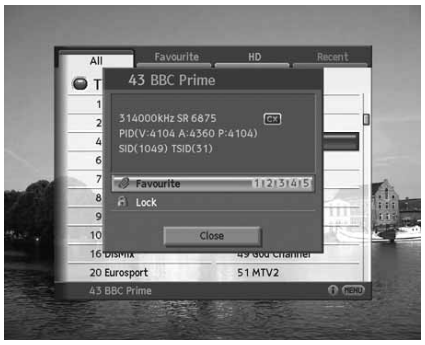


Note: You can switch between TV/radio by simply pressing the **TV/RADIO** ( ) button on the remote control.

5. Channel List

1. Including Channels in Favourite Group

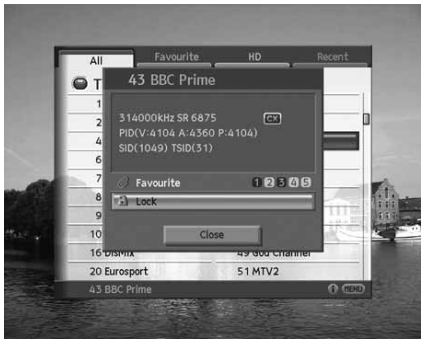
1. Select a channel to put into the favourite channel list and press the **i** button.
2. Select ***Favourite*** using the ▲/▼ button and press the **OK** button.
3. Select one or more groups from the five favourite groups and press the **OK** button.
4. Select ***Save*** and press the **OK** button.



2. Using Lock/Unlock

1. Select a channel to lock/unlock and press the **i** button.
2. When locking an unlocked channel, select ***Lock*** and press the **OK** button. ***Lock*** will become ***Unlock***.
3. When unlocking a locked channel, select ***Unlock*** and press the **OK** button. A pop-up requiring your password will appear. Enter your password and ***Unlock*** will become ***Lock***.

Note: The default password is **0000**.



3. Configuring Menu

1. Press the **MENU** button on the remote control while the channel list is displayed.
2. A list of options will show. Mark the required items and select ***Save*** and press the **OK** button.

5.2 Favourite Channel List

Favourite Channel List is the list of the favourite channels the user has selected. There are five favourite groups in total.

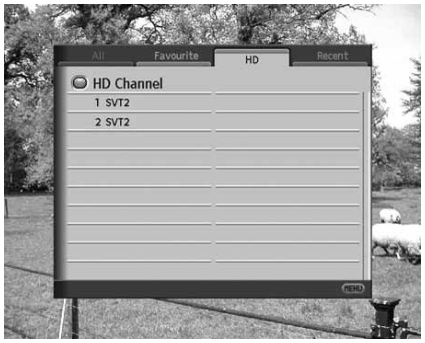
1. Press the **LIST** or **OK** button while watching a programme.
2. Press the **GREEN** button on the remote control.
3. Press the **LIST** button again and select a favourite group to view, and press the **OK** button.
4. To change the favourite group displayed, press the **GREEN** button again.

5. Channel List

5.3 HD Channel List

HD Channel List displays the list of HD channels.

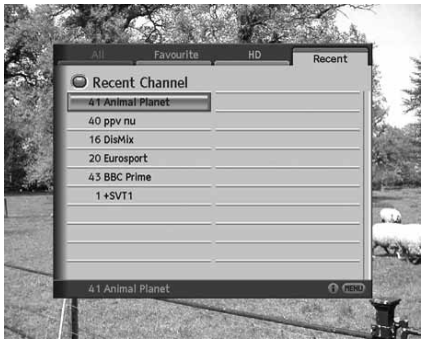
1. Press the **LIST** (LIST) or **OK** (OK) button while watching a programme.
2. Press the **YELLOW** button on the remote control.
3. To change to the SD channel list, press the **YELLOW** button again.



5.4 Recent Channel List

Recent Channel List displays the list of recently viewed channels.

1. Press the **LIST** (LIST) button while watching a programme.
2. Press the **BLUE** button on the remote control.



6. EPG

The ***EPG (Electronic Programme Guide)*** displays the detailed programme information of each channel, in time and date order. You can customize your own programme guide to list the channels or programmes of interest to you and schedule your viewing using the programme information.

Note: Press the **EPG** (EPG) or **BACK** ( ) button to exit the EPG screen.

6.1 EPG Main

EPG Main enables you to view the programme information of a certain channel in time and date order. You can reserve programmes, view contents information or view the channel list by date.

1. Press the **EPG** (EPG) button.
2. Press the **RED** button on the remote control.

1. Using EPG

1. To view all programmes of a certain day, press the ◀/▶ button. To return, press the ◀/▶ button.
2. To move to previous/next programmes use the ▲/▼ button. If the contents are more than one page, use the **PAGE** ▲/▼ (PAGE/PAGE) button to skip to the next page.
3. Press the **LIST** (LIST) button to change the channel using the channel list. Select the channel you want using the ▲/▼ button and press the **OK** (OK) button. The EPG for the selected channel is displayed.

Note: You can switch between TV/radio by simply pressing the **TV/RADIO** ( ) button on the remote control.

4. You can enter the number of the channel using the **NUMERIC(0-9)** buttons on the remote control to switch to a certain channel.
5. Select the programme you wish to view and press the **OK** (OK) button. You can watch the programme if it is currently on air or reserve it if it is a future programme.

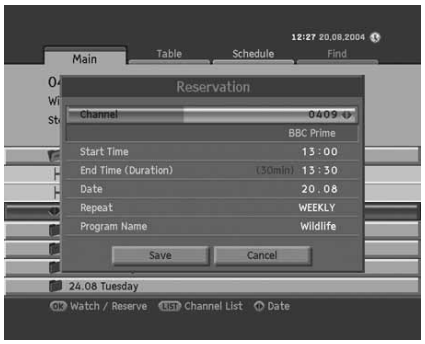
Note:

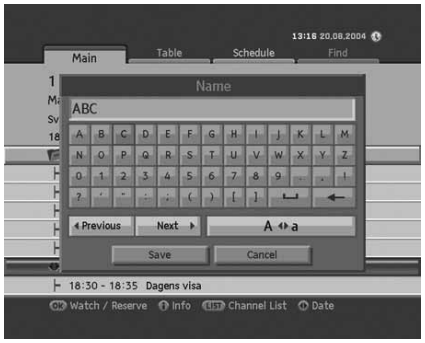
- The icon indicates reserved programmes.
- You can also use the **P-/P+** (P-/P+) button to switch channels.

2. Reserving Programmes

You can make reservations for the future programmes you wish to watch automatically.

1. Select the programme you want to reserve and press the **OK** button. A pop-up will appear.
2. To change ***Channel***, press the ◀/▶ button. You can also enter the channel number using the **NUMERIC(0-9)** buttons.
3. To change ***Start Time*** and ***End Time***, press the ◀/▶ button. You can also enter the time using the **NUMERIC(0-9)** buttons.
4. To change ***Date***, press the ◀/▶ button. You can also enter the date using the **NUMERIC(0-9)** buttons.
5. To change ***Repeat*** frequency, press the ◀/▶ button to choose from ***ONCE, DAILY*** and ***WEEKLY***.
6. To change ***Programme Name***, press the **OK** button and enter the name of the programme in the screen keyboard. Select ***Save*** and press the **OK** button.





Note: The default password is **0000**.

6.2 EPG Table

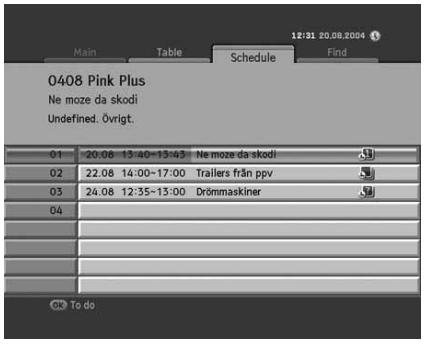
EPG Table displays the programme information of each channel based on the date and time. You can look up the programmes and make reservations.

1. Press the **EPG** (EPG) button.
2. Press the **GREEN** button to display EPG table.
3. Move to the previous/next programme within the same channel using the ◀/▶ button.
4. Move to another channel using the ▲/▼ button. If the contents are more than one page, use the **PAGE** ▲/▼ (PAGE) button to skip to the previous/next page. You can enter the channel number you wish to view using the **NUMERIC(0-9)** buttons.
5. Press the **OK** (OK) button to view the programme now or reserve if it is a future programme.

6.3 Schedule List

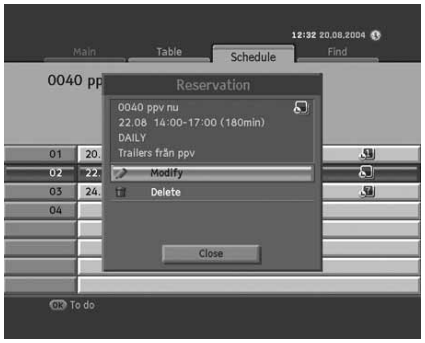
Schedule List displays the list of the programmes reserved. You can modify, delete or make new reservations.

1. Press the **EPG** (EPG) button.
2. Press the **YELLOW** button to display the schedule list.
3. The reserved programmes will be displayed in time order.



1. Modifying Schedule

1. Select the programme you want to edit using the ▲/▼ button and press the **OK** (OK) button.
2. Select ***Modify*** using the ▲/▼ button and press the **OK** (OK) button.
3. Reservation pop-up will appear. Enter the modified values and press the **OK** (OK) button.



2. Deleting Schedule

1. Select the programme you want to edit using the ▲/▼ button and press the **OK** button.
2. Select ***Delete*** using the ▲/▼ button and press the **OK** button.
3. A pop-up will appear. Select ***Yes*** and press the **OK** button.

3. New Reservation

1. Select a blank space using the ▲/▼ button and press the **OK** button.
2. Reservation pop-up will appear. For more information about how to add a reservation, refer to ***6.1.2 Reserving Programmes***.

Note:

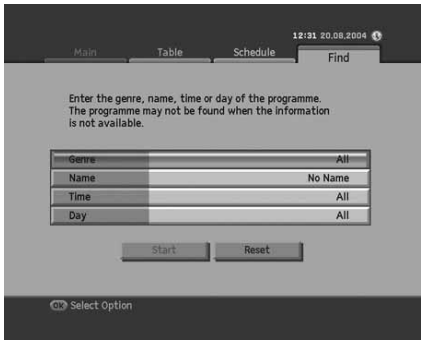
- Reservations for deleted channels or past programmes are automatically deleted.
- In case the channel number has changed, reservation has to be done again.

6.4 Find Programme

Find Programme enables you to find the programme you want by entering the genre, name, time and the day of the programme.

1. Press the **EPG** button.
2. Press the **BLUE** button to find programme.
3. Enter the genre, name, time and day of the programme.

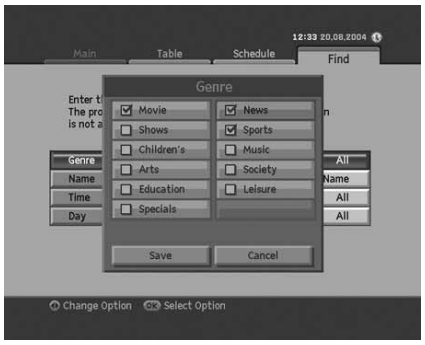
Note: If you select ***Reset*** and press the **OK** button, the default value will appear.



1. Choosing Genre

1. Select ***Genre*** using the ▲/▼ button and press the **OK** button.
2. Select the applicable genre using ▲/▼/◀/▶ button and press the **OK** button.
3. Select ***Save*** and press the **OK** button to complete.

Note: You can select up to three types of genres.



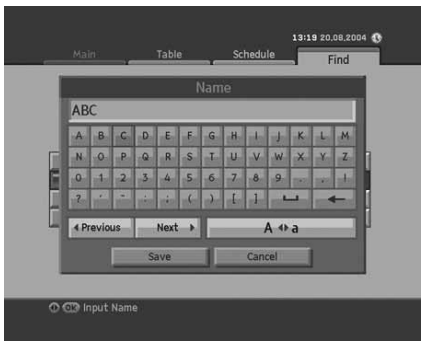
2. Entering Programme Name

1. Select ***Name*** using the ▲/▼ button and press the **OK** button.
2. Keyboard will appear. Enter the programme name on the keyboard screen.

◀ **Previous**	Switch to the previous keyboard.
▶ **Next**	Switch to the next keyboard.
A ◆▶ a	Change to upper case/lower case keyboard.

3. Select ***Save*** and press the **OK** button to complete.

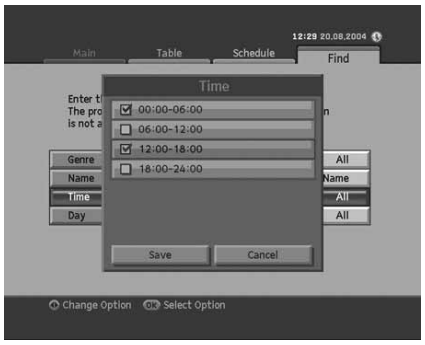
Note: You have to enter more than three letters. However, entering too many letters may cause error.



6. EPG

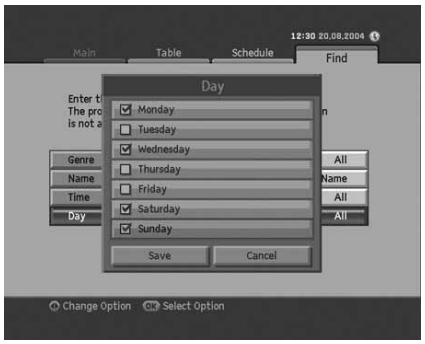
3. Search by Time

1. Select ***Time*** using the ▲/▼ button and press the **OK** (⊙) button.
2. Select the specific time using the ▲/▼ button and press the **OK** (⊙) button.
3. Select ***Save*** and press the **OK** (⊙) button to complete.



4. Search by Day of Week

1. Select ***Day*** using the ▲/▼ button and press the **OK** (⊙) button.
2. Select the specific day of week using the ▲/▼ button and press the **OK** (⊙) button.
3. Select ***Save*** and press the **OK** (⊙) button to complete.



5. Search Result

1. After setting more than one required value, select ***Start*** and press the **OK** (⊙) button to proceed.
2. The search result of the entered values will appear.
3. To reserve a programme, select a future programme and press the **OK** (⊙) button.
4. To search again, press the **BLUE** button.

7. Preferences

In this chapter you can set parental control, language setting, time setting, A/V control and other configuration items to keep limitations where you want them for the viewers.

Note: Press the **BACK** ( ) button to save the changes and return to the previous menu. Press the **MENU** ( ) button to exit the menu screen.

7.1 Parental Control

Parental Control allows you to set rating limits for each programme according to the age of the viewer or change your previous password. You can also lock the changes you have made by operating installation lock.

1. Press the **MENU** ( ) button.
2. Select ***Preferences*** using the ▲/▼ button and press the **OK** ( ) button.
3. Select ***Parental Control*** using the ▲/▼ button and press the **OK** ( ) button.
4. You will be prompted to enter a password. Enter the password using the **NUMERIC(0-9)** buttons.

Note: The default password is **0000**.

1. Age Limit

Age Limit enables you to place certain restrictions on the viewers by setting age limits and require a password to view the blocked programmes.

1. Select the ***Age Limit*** using the ▲/▼ button.
2. Select the age level you wish to set using the **OK** ( ) or ◀/▶ button.

View All	All programmes can be watched because there is no age limitation.
7/12/15/18	Programmes are blocked for children under the age 7/12/15/18.
Lock All	All programmes are blocked.

Note:

- You have to enter your password to watch the programme blocked by the age restriction.
- The default password is **0000**.

7. Preferences

2. Change Password

Change Password allows you to change the current password.

1. Select the ***Change Password*** using the ▲/▼ button and press the **OK** button.
2. Enter the new password using the **NUMERIC(0-9)** buttons.
3. Enter the new password again to confirm ***Verify Password***.

Note: The default password is **0000**.

3. Installation Lock

Installation Lock allows you to block access to the installation menu settings you have previously made.

1. Select ***Installation Lock*** using the ▲/▼ button.
2. Select ***Enable/Disable*** using the **OK** or ◀/▶ button.

Enable Password is necessary when accessing installation menu.

Disable Access to installation menu is permitted without password.

7.2 Language Setting

Language Setting enables you to set the basic language options such as menu language, subtitle display and subtitle font.

1. Press the **MENU** button.
2. Select ***Preferences*** using the ▲/▼ button and press the **OK** button.
3. Select ***Language Setting*** using the ▲/▼ button and press the **OK** button.

1. Menu Language

Menu Language allows you to choose from the given language options and set the language for the menu.

1. Select ***Menu Language*** using the ▲/▼ button.
2. Select the language you require using the **OK** or ◀/▶ button.

2. Subtitle Display

Subtitle Display allows you to show the subtitles automatically. This service is provided when subtitles are available.

1. Select ***Subtitle Display*** using the ▲/▼ button.
2. Select from ***Auto*** and ***Manual*** using the **OK** or ◀/▶ button.

Auto	Subtitles are displayed automatically in the predefined subtitle language.
Manual	Subtitles are displayed when you press the **OPT+** button on the remote control and set subtitle.

3. Subtitle Font

Subtitle Font enables you to select the font of the subtitle.

1. Select ***Subtitle Font*** using the ▲/▼ button.
2. Select from ***Variable*** and ***Fixed*** using the **OK** (⊙) or ◀/▶ button.

Variable	Uses the horizontally variable subtitle font.
Fixed	Uses the fixed subtitle font.

7.3 Time Setting

Time Setting allows you to set the current time or set the time you want to turn on/off the product.

1. Press the **MENU** (MENU) button.
2. Select ***Preferences*** using the ▲/▼ button and press the **OK** (⊙) button.
3. Select ***Time Setting*** using the ▲/▼ button and press the **OK** (⊙) button.

1. GMT Offset

You can set the current time using ***GMT Offset***.

1. Select ***GMT Offset*** using the ▲/▼ button.
2. Select your GMT offset using the **OK** (⊙) or ◀/▶ button.
3. A pop-up will appear. Select ***Yes*** and press the **OK** (⊙) button.

Note:

- The current time is set automatically whenever GMT offset changes.
- GMT can be changed in 30 minutes/1 hour units.

2. Power On

You can set the time you want the product to be automatically turned on.

1. Select ***Power On*** using the ▲/▼ button.
2. Select ***Enable/Disable*** using the **OK** (●) or ◀/▶ button.

   Enable Uses Power On and sets the time the product should be turned on.

   Disable Does not use Power On.

3. When you select ***Enable***, enter the ***Channel No***. and ***Time*** using the **OK** (●) , ◀/▶ or **NUMERIC(0-9)** buttons. Then, select ***OK*** and press the **OK** (●) button.

Note: To enter a radio channel in ***Channel No.***, press the **TV/RADIO** ( ) button to switch to radio.

3. Power Off

You can set the time you want the product to be automatically turned off.

1. Select ***Power Off*** using the ▲/▼ button.
2. Select ***Enable/Disable*** using the **OK** (●) or ◀/▶ button.

   Enable Uses Power Off and sets the time the product should be turned off.

   Disable Does not use Power Off.

3. When you select ***Enable***, enter the ***Time*** using the ◀/▶ or **NUMERIC(0-9)** buttons. Then, select ***OK*** and press the **OK** (●) button.

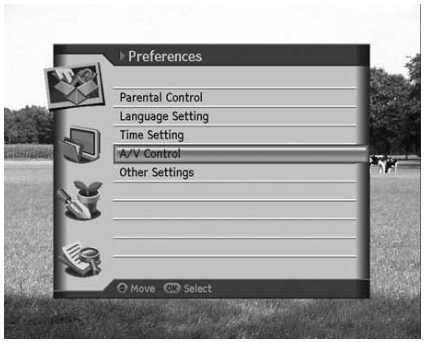
Note: Once Power On/Off has been set, it is repeated everyday.

7. Preferences

7.4 A/V Control

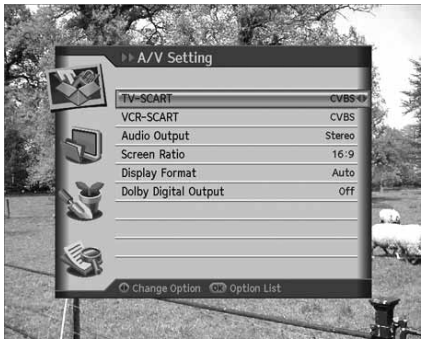
You can set the output of the audio or video.

1. Press the **MENU** button.
2. Select ***Preferences*** using the ▲/▼ button and press the **OK** button.
3. Select ***A/V Control*** using the ▲/▼ button and press the **OK** button.



1. TV-SCART

1. Select ***TV-SCART*** using the ▲/▼ button.
2. Select an option among ***CVBS, RGB*** and ***S-Video*** using the **OK** or ◀/▶ button.



2. VCR-SCART

1. Select ***VCR-SCART*** using the ▲/▼ button.
2. Select from ***CVBS*** and ***S-Video*** using the **OK** or ◀/▶ button.

3. Audio Output

1. Select ***Audio Output*** using the ▲/▼ button.
2. Select from ***Mono*** and ***Stereo*** using the **OK** or ◀/▶ button.

4. Screen Ratio

1. Select ***Screen Ratio*** using the ▲/▼ button.
2. Select from ***4:3*** and ***16:9*** using the **OK** (⊙) or ◀/▶ button.

5. Display Format

1. Select ***Display Format*** using the ▲/▼ button.
2. When choosing ***4:3*** as screen ratio, select an option among ***Auto, Letter Box*** and ***Center Mode*** using the **OK** (⊙) or ◀/▶ button.
3. When choosing ***16:9*** as screen ratio, select an option among ***Auto, Pillar Box*** and ***Full Mode*** using the **OK** (⊙) or ◀/▶ button.

6. Dolby Digital Output

1. Select ***Dolby Digital Output*** using the ▲/▼ button.
2. Select ***On/Off*** using the **OK** (⊙) or ◀/▶ button.

7. Preference

7.5 Other Settings

You can configure other settings.

1. Press the **MENU** button.
2. Select ***Preferences*** using the ▲/▼ button and press the **OK** button.
3. Select ***Other Settings*** using the ▲/▼ button and press the **OK** button.

1. i Display Time

You can set the automatic display time of the information box when the channel is switched.

1. Select ***i Display Time*** using the ▲/▼ button.
2. Select a value between ***Disable***, ***1~20*** seconds using the **OK** or ◀/▶ button.

Note: When set to ***Disable***, the ***i-plate*** will not be displayed when you switch the channel.

2. OSD Transparency

You can set the transparency of On Screen Display.

1. Select ***OSD Transparency*** using the ▲/▼ button.
2. Select an option among ***Disable, 25, 50*** and ***75*** using the **OK** or ◀/▶ button.

Disable Fully opaque screen

25, 50, 75 The bigger the number, the more transparent the screen.

8. Edit Channels

In this chapter you can edit all channels or make changes to the favourite lists of the channels you have chosen.

Note:

- Press the **BACK** ( ) button to save the changes and return to the previous menu. Press the **MENU** ( ) button to exit the menu screen.
- Press the **TV/RADIO** ( ) button on the remote to move to TV or radio channel list directly.

8.1 Edit Channel Lists

Edit Channel Lists enables you to lock/unlock, select channel group and select all the channels.

1. Press the **MENU** ( ) button.
2. Select ***Edit Channels*** using the ▲/▼ button and press the **OK** ( ) button.
3. Select ***Edit Channel Lists*** using the ▲/▼ button and press the **OK** ( ) button.

1. Locking/Unlocking Channels

1. Select the channel you want to lock and press the **RED** button on the remote control. You can select more than one channel.
2. Select ***Lock*** and press the **OK** ( ) button.

Note:

- When all selected channels are locked, ***Lock*** is switched into ***Unlock***. When you press ***Unlock***, the locked channel is switched into an unlocked channel.
- To watch locked channels, you must enter the password using the **NUMERIC(0-9)** buttons.
- The default password is **0000**.

8. Edit Channels

2. Selecting a Channel Group

You can select the channel list group to edit.

1. Press the **GREEN** button on the remote control to display the group of channel lists.
2. Select the group you want using the ▲/▼ button and press the **OK** button.

3. Select/Unselect All Channels

1. Press the **YELLOW** button on the remote control to select all channels.
2. To release one or more channels from select all, press the **OK** button while the cursor is on the selected channel.

Note: Up to 100 channels can be saved in favourite group.

8.2 Edit Favourite Channels

You can rename favourite groups, move favourite channels, select favourite groups, select/unselect all channels, add or remove channels from the favourite channel list.

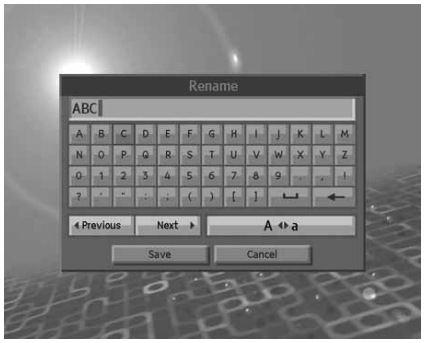
1. Press the **MENU** button.
2. Select ***Edit Channels*** using the ▲/▼ button and press the **OK** button.
3. Select ***Edit Favourite Channels*** using the ▲/▼ button and press the **OK** button.

1. Renaming Favourite Groups

You can rename your favourite group.

1. Press the **GREEN** button and select the favourite group to rename. Press the **OK** button.
2. Press the **RED** button and select ***Rename Group*** and then, press the **OK** button.
3. A keyboard will appear. Enter the name of the favourite group using the keyboard.
4. Select ***Save*** and press the **OK** button to complete.

Note: ***Rename Group*** becomes activated only when the cursor is placed on the right column.



8. Edit Channels

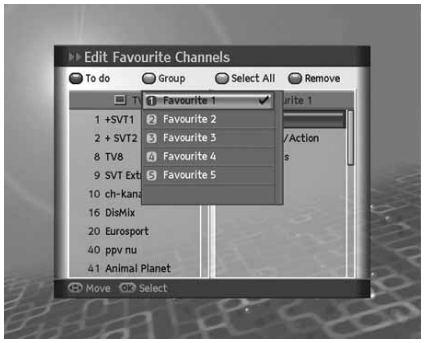
2. Moving Favourite Channels

You can move the favourite channels to a different location within the favourite channel list. This function changes the location only and does not affect the number of the channel.

1. Select the favourite channels to move within the favourite channel list and press the **RED** button on the remote control.
2. Select ***Move*** and press the **OK** button.
3. Move the cursor to the destination using the ▲/▼ button, and press the **OK** button.
4. The selected channel is moved to the new location.

3. Selecting Favourite Groups

1. Press the **GREEN** button on the remote control to display the group of favourite channels.
2. Select the favourite group you want using the ▲/▼ button and press the **OK** button.



4. Selecting/Unselecting All Channels

1. Press the **YELLOW** button on the remote control to select all channels.
2. To release one or more channels from select all, press the **OK** button while the cursor is on the selected channel.

Note: Up to 100 channels can be saved in favourite group.

5. Adding/Removing Channels

You can add a channel to the favourite group or remove a channel from the list.

1. Select the channels you want to add to the favourite channel list using the ▲/▼ button.
2. Press the **BLUE** button on the remote control to add the channels to the favourite list you have chosen.
3. To remove channels from the favourite list, select the channels from the list and press the **BLUE** button on the remote control.

Note: When the cursor is on the left column, the blue button is marked ***Add***; when the cursor moves to the right column, it becomes ***Remove***.

9. Installation

In this chapter you can configure the installation settings.

Note: Press the **BACK** ( ) button to save the changes and return to the previous menu. Press the **MENU** ( ) button to exit the menu screen.

9.1 Channel Search

You can search channels manually using the search parameters.

1. Press the **MENU** ( ) button.
2. Select ***Installation*** using the ▲/▼ button and press the **OK** ( ) button.
3. Select ***Channel Search*** using the ▲/▼ button and press the **OK** ( ) button.
4. Enter the values for ***Frequency, Symbol Rate*** and ***Network ID***.

1. Frequency

Select ***Frequency*** using the ▲/▼ button. Enter the frequency using the **NUMERIC(0-9)** buttons.

2. Symbol Rate

Select ***Symbol Rate*** using the ▲/▼ button. Select the symbol rate using the **OK** ( ) or ◀/▶ button. Select ***User Define*** to enter the value directly.

3. Network ID

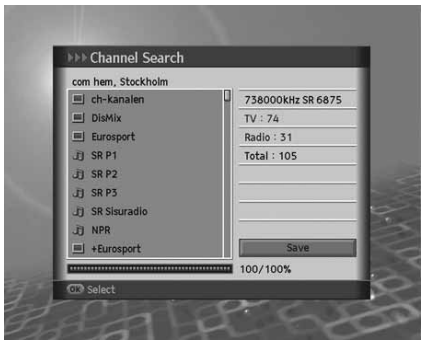
Select ***Network ID*** using the ▲/▼ button. Enter the network ID using the **NUMERIC(0-9)** buttons.

4. Search

Select ***Search*** and press the **OK** button to activate channel search. Wait until channels search is completed. This may take a few minutes.

The cursor is located at ***Stop*** during channel search. If you press the **OK** button while performing channel search, the operation will stop and only the channels found so far will be displayed. Reset the settings and activate channel search again if necessary.

Press the **OK** button to save the results.



9. Installation

9.2 Default Setting

Default Setting enables you to restore the product to the factory default.

Warning: Please note that once you perform ***Default Setting***, all data such as antenna setting information, channel list, and all user configured data will be deleted.

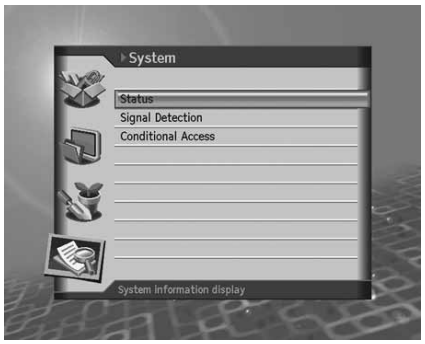
1. Press the **MENU** button.
2. Select ***Installation*** using the ▲/▼ button and press the **OK** button.
3. Select ***Default Setting*** using the ▲/▼ button and press the **OK** button.
4. Select ***Yes*** and press the **OK** button to restore all setting to factory default. To return to the previous menu, select ***No*** and press the **OK** or **BACK** button.
5. You will be prompted to enter your password again before starting to load default setting. Enter the password to proceed.
6. When default setting is completed, installation wizard pops up automatically and assists channel search. For detailed information about installation wizard, refer to ***Chapter 3. Installation Wizard***.

Note: The default password is **0000**.

10. System

You can view all system information, signal detection and Conditional Access.

1. Press the **MENU** button.
2. Select ***System*** using the ▲/▼ button and press the **OK** button.



10.1 Status

1. Select ***Status*** using the ▲/▼ button and press the **OK** button.
2. The system information will be displayed.

10.2 Signal Detection

You can view the signal strength and signal quality of the channel that is currently on AV.

Select ***Signal Detection*** using the ▲/▼ button and press the **OK** button.

10.3 Conditional Access

1. Select ***Conditional Access*** using the ▲/▼ button and press the **OK** (⊙) button.
2. The Smartcard information will be displayed.

Note: The displayed information may differ depending on the type of Smartcard.

11. Software Update

In order to maintain proper performance of the product, it is essential to have the most up-to-date software. Visit the Humax website to check the latest news and newly released software versions.

http://www.humaxdigital.com

It is recommended that you periodically check for the availability of software update.

11.1 OTA (Over the Air)

OTA, an abbreviation of ***Over–the-Air***, is a standard for the transmission of software through a broadcast system. The manufacturers reserve the right to decide when and where an update is made available. The new software version is then downloaded via cable. The software update via cable will only occur under the following circumstances.

1. The equipment should have appropriate loader software.

   Caution: Please note that if normal loader software is not equipped, the product may not be updated or operate properly after software update.

2. The manufacturer transmits the software via cable. The new version of the software is generally detected automatically.

   Caution:
   - Please be careful to keep the power on and the power cord plugged in during software update. If the power is off during software update, fatal damage may be caused to the product.
     Please be careful not to pull out the signal line (co-axial cable) during software update. Update may be interrupted and the product may not operate.

   Note:
   - Other functions will not activate while software update takes place.
   - It may take 5~10 minutes to update software.
   - Scheduling operation cannot work during software update.

1. New software found when powering on

1. A message will pop up to notify that a new software is found.
2. Select ***Immediate*** and press the **OK** button to start updating immediately. Select ***Later*** and press the **OK** button to update later(stand-by).
3. Software download starts. Please wait until the update is completed.
4. When software update is complete, the equipment is automatically powered off and on again.

2. Mandatory Update

1. A message will pop up to notify updating.
2. Press the **OK** button to start updating immediately.

Note: You cannot operate any buttons except for the **OK** button.

11. Software Update

11.2 Updating Software from Menu

You can set update software automatically.

1. Press the **MENU** button.
2. Select ***Installation*** using the ▲/▼ button and press the **OK** button.
3. Select ***Software Update*** using the ▲/▼ button and press the **OK** button.
4. Automatically search for new software. Select ***Cancel*** and press the **OK** to finish search.
5. When detecting software update, a message will pop up to notify that a new software is found.
6. Select ***Immediate*** and press the **OK** button to start updating immediately. Select ***Later*** and press the **OK** button to update later(stand-by).
7. Software download starts. Please wait until the update is completed.
8. When software update is complete, the equipment is automatically powered off and on again.

Note: The displayed information may differ depending on the type of Smartcard.

12. Menu Map

Preferences

- 1. Parental Control
- 2. Language Setting
- 3. Time Setting
- 4. A/V Control
- 5. Other Settings

Edit Channels

- 1. Edit Channel List
- 2. Edit Favourite Channels

Installation

- 1. Channel Search
- 2. Software Update
- 3. Default Setting

System

- 1. Status
- 2. Signal Detection
- 3. Conditional Access

13. Trouble Shooting

13.1 Trouble Shooting

Before contacting your local service centre, please read the tips below carefully. If the problem persists after completing the following procedure, please contact your local product distributor or service centre for further instructions.

1. **No message displayed on the front panel. (The product will not switch on.)**
   - Check the main power cable and make sure it is plugged into a suitable power outlet.
   - Check that the mains supply is switched on.
   - Check that the power switch is on at the rear of the product. (where applicable)
   - Connect the power cable to a different power outlet.

2. **No picture on TV set**
   - Make sure that the product is powered on and in operation mode. (Press the STANDBY button)
   - Make sure that the AV cable is firmly connected to the TV.
   - Make sure that the cable is properly connected to the product.
   - Be sure to activate channel search.
   - Check the brightness level of the TV.
   - Check if the channel is currently on air. Contact the broadcaster to ensure that the channel is running.
   - Press the SOURCE button if the product is in external input mode.

3. **No or poor sound**
   - Check that your AV cable is connected correctly.
   - Check the volume levels of your TV set and the product.
   - Check if the product or TV is on mute.
   - Check audio type or soundtrack option in the AV menu.

4. **Remote control does not operate.**
   - To control the product, the top end of the remote control should point directly towards the receiving part of the product.
   - Remove and reinsert the batteries in the remote control.
   - Replace the batteries in the remote control for a new set.

5. **Cannot make reservations.**
   - Check that no previous reservations are conflicting with the new reservation.
   - Check that the product is switched on at the time of the reservation.

6. Cannot watch scrambled channels.

- Check that you have the appropriate Smartcard. Reinsert the Smartcard and make sure it initializes correctly.
- Check in the menu that the product is detecting the Smartcard.
- Check in the menu that you have a valid and working subscription to the channels you wish to view.
- Ensure that the Smartcard is not damaged.

7. No password information is given.

- The default password is always **0000**.

8. Channel search does not work.

- Check that your cable is connected correctly.

9. Cannot update new software.

- You can get an update. If the product does not show a message requesting update, that means no software is available.

10.Cannot watch pay channels.

- Check in the menu that you have a valid and working subscription to the channels you wish to view.
- Contact your network operator for more information.

13. Trouble Shooting

13.2 Error Message

Error message	Possible causes	What to do
No or bad signal	The cable is not connected.	Make sure the cable is connected correctly.
	The cable may be damaged or defective.	Exchange the cable.
	The channel is not broadcasting.	
The channel is scrambled or not available.	The channel has signal, but no video.	Confirm if the channel is currently on air.
	The channel is deleted by the broadcasting company.	
	The channel is for data broadcasting.	
The audio is not available.	The channel has signal, but no audio.	Press the OPT+ button to confirm if the channel has audio.
No access	No subscription to this channel.	Make sure you are subscribed to the channel.
	No authorization.	If the product has been turned off for a long time (standby or power off), please wait for authorization. It may take up to 60 minutes.
No card inserted.	Smartcard is not inserted.	Insert Smartcard.
Incorrect card	Wrong Smartcard is inserted.	Insert appropriate Smartcard.
	Smartcard is not correctly inserted.	Pull out the Smartcard and reinsert it.
	Smartcard is broken.	Replace the Smartcard.

14. Specification

Tuner & Channel	
Input Connector	IEC 169-2 female
Frequency Range	51MHz to 858MHz
Signal Level	-15 to +15 dBmV
Demodulation	DVB-C (QAM)
Input Symbol Rate	1.5~7 Ms/s
MPEG Transport Stream A/V Decoding	
Transport Stream	MPEG-2 ISO/IEC 13818
Profile Level	MPEG-2MP@ML, MPEG-2 MP@HL, MPEG-4 AVC/H.264 HP@L4
Input Rate	15 MB/s Max
Aspect Ratio	4:3, 16:9
Video Resolution	1080i, 720p, 576p
Audio Decoding	MPEG/MusiCam Layer I & II
Audio Mode	Single mono/dual mono/stereo/joint stereo
Memory	
Flash Memory	4 MB
Graphic(MPEG) & System DRAM	64MB+32MB
EEPROM	8KB
Audio/Video/Data In/Out	
Video	TV-SCART (CVBS, S-Video, RGB) VCR-SCART (CVBS, S-Video) RCA-Typ (CVBS), Component (YPbPr), HDMI
Audio	TV-SCART, VCR-SCART, Audio L/R, SPDIF (Digital Audio Output)
Data	RS-232C (9-pin plug)
Power Supply	
Input Voltage	AC 90~250 V, 50/60 Hz
Type	SMPS
Power Consumption	Max 20W
Protection	Separate internal fuse & lightning protection
Physical Specification	
Size	370mmx60mmx265mm
Weight (Net)	2.5kg
Operating Temperature	0 ℃ to +45 ℃
Storage Temperature	-10 ℃ to +65 ℃

15. Glossary

EPG(Electronic Programme Guide)

An electronic equivalent to a printed television listings magazine; it is an application used with digital receivers and digital television sets to list current and scheduled programs that are or will be available on each channel, including a short summary or commentary for each program. The information supplied in the EPG is sent and updated by the channel broadcaster.

Frequency

The property of a signal measured in cycles per second (=Hz).

HDMI (High-Definition Multimedia Interface)

An all-digital audio/video interface that supports standard, enhanced, or high-definition video, plus multi-channel digital audio on a single cable. It transmits all ATSC HDTV standards and supports 8-channel digital audio.

OSD (On Screen Display)

OSD displays the basic information necessary for the users to configure monitor or TV settings. OSD information may include brightness, contrast, tuning, RGB adjustment, and screen size and position.

OTA (Over The Air)

A standard for the transmission of software for equipment, through a broadcast system. Manufacturers reserve the right for deciding the release of the software for their products.

SCART

A 21-pin connector standard to connect two pieces of Audio-Visual equipment such as a TV and a VCR. Each device will have a 21-pin female connection; a cable with male connection at both ends is used for connecting the devices.

Smartcard

A chipcard the same size as a credit card which must be inserted into the digital receiver in order to descramble the TV signals.

S/PDIF (Sony/Philips Digital Interface format)

A standard format for the transfer of digital audio signals. It allows the transfer of digital audio between two devices without any conversion to and from analogue, which could degrade the signal quality.

16. Service and Support

Information concerning troubleshooting, software upgrade and product support is provided in the following websites and call centers.

Should your product require warranty service, please contact HUMAX to obtain the appropriate authorization.

Germany	
Tel:	01805-778870 (€0,12/min)
Opening Hours:	Mon-Sat 8:00-20:00
E-mail:	techinfo@humax-digital.de
Website:	www.humax-digital.de
Language:	Deutsch/English/Turkish

UK	
Tel:	0870 247 8800
Opening Hours:	Mon-Fri 8:30-18:00
E-mail:	uksupport@humax-digital.co.uk
Website:	www.humax-digital.co.uk
Language:	English

Middle East (Dubai, UAE)	
Tel:	+971 (0)4 359 2323
Opening Hours:	Sat-Thurs 9:00-20:00(Closed on Fri)
E-mail:	callcenterME@humaxdigital.com
Website:	www.humaxarabia.com
Language:	Arabic/English

Australia	
Tel:	1800 613 011
Opening Hours:	Mon- Fri 9:00-17:30
E-mail:	techinfoau@humaxdigital.com
Website:	www.humaxdigital.com/australia
Language:	English

16. Service and Support

Italy	
Tel:	899 100 080 (€1+ VAT/min)
Opening Hours:	Mon- Fri 8:00–18:00
	Local time in Italy (GMT+1)
Language:	Italian
Sweden	
Tel:	+46 (0)550 85527
Opening Hours:	Mon-Fri 8:00-16:30
Language:	Swedish/English
Finland	
Tel:	09 56186366
Opening Hours:	Mon-Fri 8:00-16:00
Language:	Finnish/English
Austria	
Tel:	01805-778870 (€0,12/min)
Opening Hours:	Mon-Sun 8:00-23:00
E-mail:	support@humax-digital.de
Website:	www.humax-digital.de
Language:	Deutsch/English/Turkish

Note: For hardware repair, please visit our website.

HUMAX

EASY DIGITAL

HUMN-CXHD1000C.100GB/SV